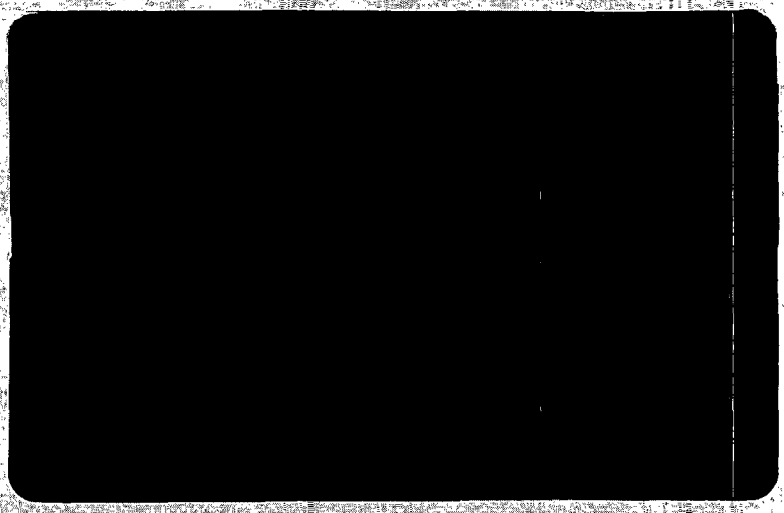
Reference Copy
AE REP
#28854



Special Educational Services

AE
REP

Alberta
EDUCATION

A COMPARISON

OF

GRADE XII ACADEMIC ACHIEVEMENT

1976 TO 1982

J. E. REID

STUDENT RECORDS & COMPUTER SERVICES

OCTOBER, 1982.

AEA LIBRARY
70178

An analysis of the student registry maintained by Alberta Education is undertaken yearly and distributed throughout the Province. The present report attempts to summarize the following for the school years 1976-77 to 1981-82:

1. Number of diplomas issued;
2. Number of students achieving university entrance;
3. Comparison of achievement scores in the Grade XII academic subjects.

High School Diplomas

High School Diplomas are issued three times during each school year, (April, August and November). Table I shows a comparison of the number of students enrolled in Grade XII, the number of diplomas issued, and the number of students who qualified for entrance into an Alberta University during the six years 1976-77 to 1981-82. During this period, approximately 72% of the Grade XII population were awarded a high school diploma. About 52% of the diploma students completed an academic program with averages above 60% and thus met entrance requirements for a University in Alberta. During this period the Grade XII population increased by about 5%, whereas the number of students who obtained University entrance increased by about 9%. Approximately 28% of the 1981-82 Grade XII population were sixteen years old, 68% seventeen years old, and 14% eighteen

TABLE I

NUMBER OF HIGH SCHOOL DIPLOMAS ISSUED

Year	Number of Grade XII Students	Number of Diplomas	Number of Possible * University Candidates
1976-77	31,504	21,696 (69%)	11,927 (55%)
1977-78	31,681	23,703 (75%)	11,689 (49%)
1978-79	32,124	22,662 (70%)	11,781 (52%)
1979-80	32,267	23,379 (72%)	11,716 (50%)
1980-81	32,725	24,000 (73%)	12,542 (52%)
1981-82	33,151	24,446 (74%)	13,052 (53%)

* The number of possible University candidates is also included in the number of students qualifying for a High School Diploma.

years or older, this table cannot be interpreted as an age comparison.

Fulfillment of University Entrance Requirements

The achievement of the students obtaining University entrance requirements during the aforementioned six year period is further analysed in Tables A and B, Appendix A. Table A shows the frequency distribution of the averages obtained, divided into three categories (60-69%, 70-79%, 80%+) for each of four program clusters. Table B shows the frequency distribution of the number of students obtaining University entrance by zone or city.

For purposes of this analysis, a matriculant is defined as one who has completed English 30 and at least four other Grade XII courses with a minimum mark of 50% and an average mark of 60%. The following definitions and explanations of program clusters will be required when interpreting these tables.

Condition A - Students in this category must have completed English 30, Social Studies 30, plus four other academic subjects (Mathematics 30, Mathematics 31, Chemistry 30, Physics 30, Biology 30, French 30, French 31, Ukrainian 30 and German 30).

Condition B - Students in this category must have completed English 30 and four other academic subjects.

Condition C - Students in this category must have completed English 30 plus three of the academic subjects and one other Grade XII subject. The average in this category is based upon all five subjects.

Condition D - Students in this category must have completed English 30, three of the academic subjects and one other Grade XII subject, the average being based upon only the four academic subjects.

Table A of Appendix A shows a detailed analysis of the achievement of students obtaining University entrance for each of the years from 1976-77 to 1981-82 by level of achievement and type of program completed. This Table (summarized in Table II) shows a great deal of consistency existed during this period of years. Among these consistencies are the following:

1. Of the students obtaining a University entrance, 31% completed six academic courses in Grade XII, 43% completed five academic courses, while the remainder completed four academic courses and one non-academic course;

TABLE II

Percentage of Students Obtaining University Entrance 1976 to 1982 By Entrance Criteria and Average Category

Averages	60-69% ***	70-79%	80%	Total **
Condition A	35%	39%	26%	31%
B	54%	32%	14%	43%
C	75%	22%	3%	26%
D	100%	-	-	-
TOTAL	54%	31%	15%	12,118*

* Average yearly number of students obtaining University entrance.

** The percentages shown in this column are percentages of 12,118.

*** The percentages shown in the average columns are percentages of the number of students obtaining University entrance in each of the four Conditions.

2. Of the students obtaining University entrance, about 15% achieved an average in all courses of at least 80%, another 31% averaged between 70-79%, and 54% were between 60-69%;
3. Of the students obtaining an entrance under Condition A, 26% had a six course average of 80% or higher, 39% had between 70-79%, and 35% earned between 60-69%;
4. Approximately one-half (54%) of the students qualifying for University entrance with a five course academic program achieved averages between 60-69%;
5. Approximately three-quarters (75%) of the students obtaining University entrance with Grade XII programs consisting of four academic courses and one non-academic course (Condition C) achieved averages between 60-69%.

An analysis of the programs of the 3,365 students in 1981-82 (Table A, Appendix A) who obtained University entrance with programs consisting of four academic courses and one non-academic course (Condition C) revealed that there were 83 different non-academic courses. The nine most "popular" courses (occurrences greater than 100) are shown in Table III. Approximately one-fifth of this population completed Physical Education 30. They had an average score of 76% in this subject, an average of 61% in the four academic courses, and an average of 64% in the five subjects. Since the average score in all 3,365

TABLE III

Non-Academic Courses Completed By Students in 1981-82

Obtaining Condition "C" University Entrance

Course	N	Non-Academic Course Average	Average of 4 Academic Courses	Average of 5 Courses	Number of Schools
Physical Education 30	690	76	61	64	244
Mathematics 33	299	72	62	64	178
Accounting 30	256	78	65	68	179
Typewriting 30	209	79	64	67	263
Art 30	189	78	65	66	142
Special Projects 30	188	83	64	68	N/A
Music 31	183	83	63	67	118
Work Experience 35	168	84	64	66	225
Drama 30	125	80	64	67	91
83 Courses	3,365	78	61	65	

occurrences of the 83 non-academic courses was higher than the average score of all academic courses (78% compared to 61%) the non-academic course increased the average of the students' programs. The heavier concentration in some courses can be attributed to the size of the school, because of the schools inability to offer a wider range. For example, of the schools offering instruction in Grade XII about 80% offered Physical Education, 60% offered Mathematics 33, and only 39% offered Music 31.

Table B, Appendix A, shows the number of students within regions of the Province, during the school years 1976-77 to 1981-82, who obtained University entrance under each of the four conditions. Students shown in the "Others" category completed their programs in a provincially operated school, a school in the Northwest Territories, or by private study or correspondence. The data for the six year period are summarized in Table IV. This Table shows the average percentage of students who obtained a University entrance through each of four types of program identified as Conditions A, B, C, and D.

A few of the conclusions that may be drawn from Table B and Table IV include the following:

1. Approximately 54% of the students obtaining University entrance attended high school in the public, separate or private systems in Calgary or Edmonton;

2. The average percentage of students completing five academic courses for University entrance is quite similar in all regions except Zone 1. In Zone 1, 39% of the students completed a five course program compared to 42-47% in the other areas;
3. About one-third (30-35%) of the students completed six academic courses for University entrance in most regions of the Province with the exception of the Calgary systems. It appears that approximately one-quarter of the students in Calgary complete a six course academic program. This percentage in Calgary remained quite consistent during the six year period with the exception of 1979-80, when it dropped to about one-fifth;
4. About one-quarter of the students completed programs consisting of four academic and one non-academic courses with the exception of the students in the Calgary systems. It appears that in Calgary approximately one-third of the students (range of 29-36%) complete this type of a program compared to 22-26% in other areas.

TABLE IV

Percentage Distribution of Students Obtaining

University Entrance 1976 to 1982 By Region

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Edmonton	Calgary	Others	Total
Condition A	36	33	35	30	33	30	35	24	32	31
B	39	45	42	47	44	44	42	44	42	43
C	25	22	23	23	23	26	23	32	26	26

Comparison of Achievement Scores

The scores obtained from the schools in the Grade XII academic subjects (former examination subjects) were analyzed to determine the follcwing:

(a) percentage of marks awarded each letter grading;

(b) mean and standard deviation;

(c) number of students.

Table V shows this analysis for the school years 1976-77 to 1981-82. During the six year period there has been a steady increase in enrolments in Mathematics 30, Chemistry 30 and Physics 30. The enrolments in all other subjects remained relatively constant. An analysis of the Table shows that there has been a fairly consistent pattern in the awarding of marks within subjects; in each subject there was very little change in the mean score or in the standard deviation.

Table VI and Figure I show the distribution of the combined A and B marks, expressed as a percentage, over the six year period, as well as the average percentage distribution during the 1972-76 period. Two courses in Grade XII Chemistry and Physics existed until the commencement of the 1979-80 school year when the curriculum was revised to include only one of each in the last three years.

An analysis of this table shows that:

1. Following the 1972-76 period there was 3-4% decrease in the number of A and B gradings awarded in English 30, Mathematics 30 and Biology 30, and this level has remained quite constant during the six year period;

2. Following the initial period of accreditation there was an initial decrease in the percentage of A and B gradings awarded in Social Studies 30 and Chemistry 30. However, in the last three years this situation appears to have reversed, and the percentage is now greater than during the 1972-76 period;

3. Following the 1972-76 period little change occurred in French 30 and Physics 30 but in the past three years there has been an increase of 5% and 3% respectively in these two courses. Since there was an increase of about 1,600 student during this six year period the change in evaluation practices in Physics 30 may need review.

TABLE V

PERCENTAGE DISTRIBUTION OF ACHIEVEMENT MARKS
ASSIGNED BY SCHOOLS
IN THE FORMER DEPARTMENTAL EXAMINATIONS

	ENGLISH 30				SOCIAL STUDIES 30				MATHEMATICS 30			
	1980-81	1981-82	1982-83	1983-84	1980-81	1981-82	1982-83	1983-84	1980-81	1981-82	1982-83	1983-84
A	10.9	11.0			15.2	15.1			18.9	18.3		
B	39.4	37.7			37.5	36.8			29.1	28.9		
C	42.0	42.4			38.9	39.5			38.8	38.8		
D	6.0	6.5			6.8	6.7			9.9	10.0		
F	1.7	2.3			1.7	1.8			3.3	3.9		
Mean	64.0	63.5			64.9	64.8			64.0	63.7		
S.D.	11.8	12.2			12.8	12.7			15.3	15.3		
No.	19,487	19,858			14,400	14,494			15,815	16,304		

	BIOLOGY 30				CHEMISTRY 30				PHYSICS 30			
	1980-81	1981-82	1982-83	1983-84	1980-81	1981-82	1982-83	1983-84	1980-81	1981-82	1982-83	1983-84
A	15.7	16.3			20.4	19.3			24.6	22.7		
B	34.2	33.1			33.0	32.4			33.9	35.2		
C	40.3	41.2			36.6	37.4			33.0	33.3		
D	7.9	7.5			7.8	8.4			6.5	6.6		
F	1.9	1.9			2.2	2.5			2.0	2.2		
Mean	64.4	64.5			65.8	65.1			67.3	67.0		
S.D.	13.2	13.3			14.3	14.5			14.6	14.4		
No.	12,981	13,089			13,033	13,142			6,994	7,468		

	FRENCH 30			
	1980-81	1981-82	1982-83	1983-84
A	25.5	24.6		
B	39.1	38.6		
C	30.3	31.6		
D	4.3	4.3		
F	.8	.9		
Mean	69.1	68.9		
S.D.	12.8	13.2		
No.	4,392	4,363		

TABLE V (Continued)

PERCENTAGE DISTRIBUTION OF ACHIEVEMENT MARKS
ASSIGNED BY SCHOOLS
IN THE FORMER DEPARTMENTAL EXAMINATIONS

	ENGLISH 30				SOCIAL STUDIES 30				MATHEMATICS 30			
	1976-77	1977-78	1978-79	1979-80	1976-77	1977-78	1978-79	1979-80	1976-77	1977-78	1978-79	1979-80
A	12.1	11.1	11.1	10.1	14.7	14.5	13.4	13.7	17.6	17.0	17.4	16.8
B	37.7	37.4	37.8	37.5	34.9	34.7	35.3	35.8	28.8	29.1	29.3	29.9
C	40.5	42.4	42.7	44.1	39.8	40.2	40.0	40.7	39.5	39.5	39.2	39.0
D	6.6	6.7	6.0	6.0	7.9	8.3	8.9	7.9	10.1	10.4	10.3	10.5
F	3.1	2.4	2.4	2.1	2.7	2.3	2.5	1.9	3.9	4.0	3.7	3.8
Mean	63.5	63.3	63.5	63.4	63.8	63.8	63.6	64.0	63.3	63.1	63.4	63.3
S.D.	12.8	12.4	12.4	12.0	13.4	13.2	13.2	12.8	15.2	15.3	15.2	15.1
No.	19,464	19,247	18,701	18,887	15,085	14,558	14,106	14,072	14,844	14,858	14,735	14,874
	BIOLOGY 30				CHEMISTRY 30				CHEMISTRY 30X			
	1976-77	1977-78	1978-79	1979-80	1976-77	1977-78	1978-79	1979-80	1976-77	1977-78	1978-79	1979-80
A	15.1	14.9	15.0	15.0	16.6	19.6	19.1	19.2	18.5	18.0	19.3	---
B	33.6	33.8	33.4	33.0	32.5	33.0	31.7	32.5	33.1	32.9	34.1	---
C	40.4	40.6	41.0	41.2	39.2	36.8	37.7	37.4	37.5	38.8	37.2	---
D	8.2	7.9	7.9	8.5	9.1	8.2	8.4	8.6	8.2	8.1	7.9	---
F	2.7	2.8	2.7	2.3	2.6	2.4	3.0	2.3	2.7	2.2	1.6	---
Mean	63.8	63.8	63.8	63.8	64.1	65.3	64.7	65.1	64.8	64.8	65.6	---
S.D.	13.6	13.5	13.6	13.3	14.3	14.3	14.6	14.3	14.3	14.1	13.9	---
No.	13,671	13,261	13,009	12,858	4,359	5,540	7,698	11,930	8,163	6,500	4.171	---
	PHYSICS 30				PHYSICS 30X				FRENCH 30			
	1976-77	1977-78	1978-79	1979-80	1976-77	1977-78	1978-79	1979-80	1976-77	1977-78	1978-79	1979-80
A	21.5	21.4	23.4	21.1	20.4	21.1	21.1	---	26.0	24.6	23.9	24.8
B	33.9	32.8	33.2	33.8	34.9	34.8	33.0	---	37.2	36.3	38.5	37.5
C	34.7	35.9	33.0	34.8	35.3	34.9	34.8	---	31.0	32.9	31.8	31.7
D	7.5	7.5	7.3	8.0	7.9	6.2	7.9	---	4.6	5.0	4.7	5.0
F	2.4	2.4	3.1	2.3	1.5	3.0	3.1	---	1.2	1.2	1.2	1.0
Mean	66.8	65.9	66.5	66.1	66.4	66.1	65.8	---	68.8	68.0	68.3	68.5
S.D.	14.8	14.8	15.3	14.6	14.3	14.7	15.3	---	13.6	13.7	13.3	13.1
No.	5,877	6,119	5,725	6,412	833	664	669	---	4,127	3,963	4,170	3,889

TABLE VI

Percentage Distribution of Grade XII A and B Marks (Combined)

Course	1972-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
English 30	54	50	49	49	48	50	49
Social Studies 30	51	50	49	49	50	53	52
Mathematics 30	49	46	46	47	47	48	47
Biology 30	53	49	49	48	48	50	49
Chemistry 30	51	49	53	51	52	53	52
Chemistry 30X	54	52	51	53	-	-	-
Physics 30	55	55	54	57	55	59	58
Physics 30X	55	55	56	54	-	-	-
French 30	60	63	61	61	62	65	63

TABLE VI

Percentage Distribution of Grade XII A and B Marks (Combined)

Course	1972-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82
English 30	54	50	49	49	48	50	49
Social Studies 30	51	50	49	49	50	53	52
Mathematics 30	49	46	46	47	47	48	47
Biology 30	53	49	49	48	48	50	49
Chemistry 30	51	49	53	51	52	53	52
Chemistry 30X	54	52	51	53	-	-	-
Physics 30	55	55	54	57	55	59	58
Physics 30X	55	55	56	54	-	-	-
French 30	60	63	61	61	62	65	63

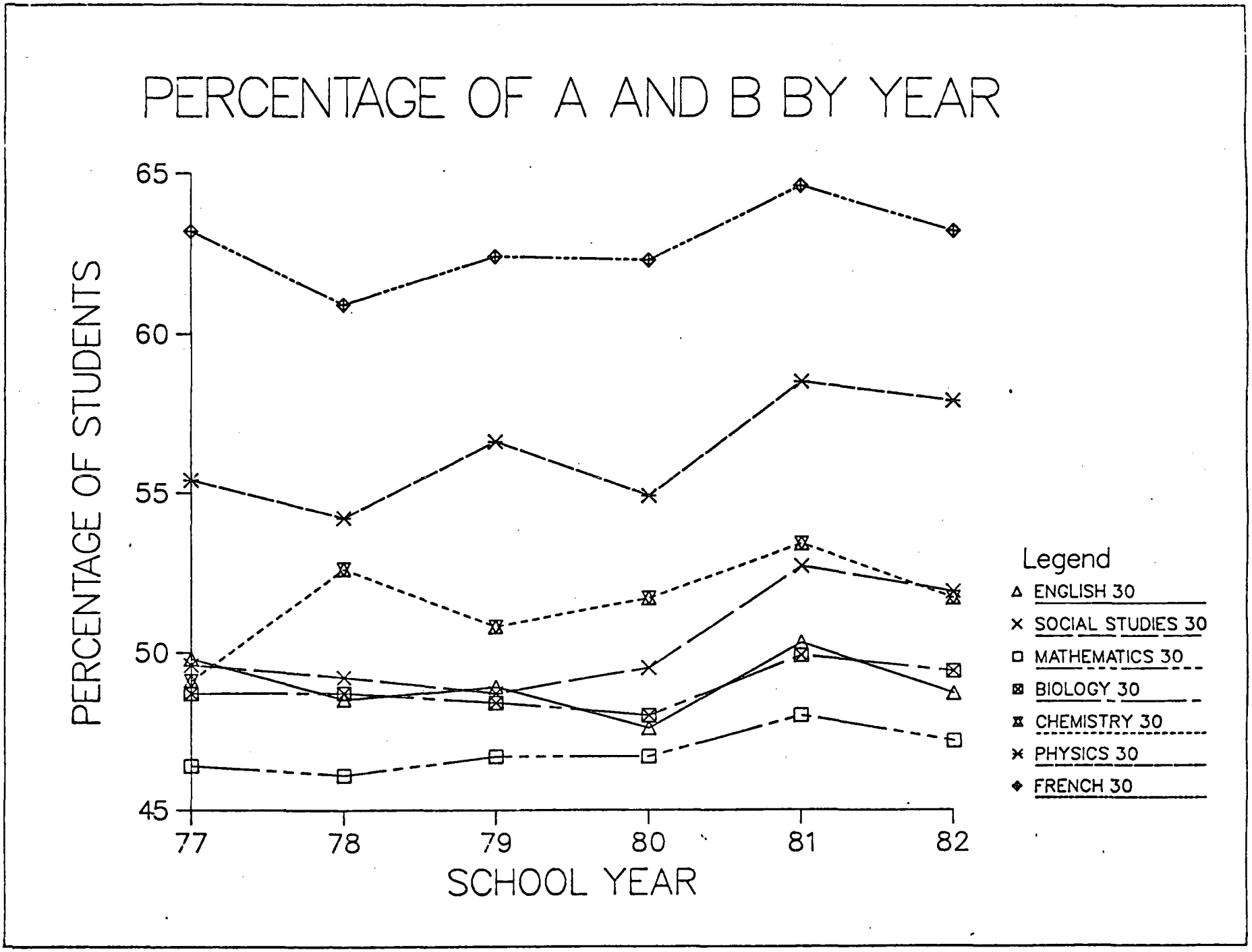

PERCENTAGE OF A AND B BY YEAR
PERCENTAGE OF STUDENTS
65
60
55
50
45
77
78
79
80
81
82
SCHOOL YEAR
Legend
ENGLISH 30
SOCIAL STUDIES 30
MATHEMATICS 30
BIOLOGY 30
CHEMISTRY 30
PHYSICS 30
FRENCH 30

FIGURE I

The tables included in Table C, Appendix A, show a comparison of achievement scores for each of the six rural zones and for the systems in Edmonton and Calgary. Considerable similarity exists in the value of the means and in the percentage distribution of letter gradings among the ten regions of the Province during the six year period. The following are a few of the more significant conclusions that may be made from these tables.

(a) English 30 - students in Zone 1-4 consistently achieved fewer A and B gradings than did students in the rest of the Province with the exception of 1979-80 when the students in Calgary Public obtained fewer A and B marks than usual. The latter could have been partially attributed to the teacher's strike that spring.

(b) Social Studies 30 - students in the two Calgary systems consistently achieved more A and B marks than did other students. Approximately 54-59% of these students received A and B gradings compared to 44-50% in other areas of the Province.

(c) Mathematics 30 - achievement of students in this subject was more consistent among the Regions of the Province than in any other academic subject.

(d) Biology 30 - students in Zones 1 and 2 consistently achieved fewer A and B grades than did students in the other areas of the Province.

(e) Chemistry 30 - students in Calgary and Edmonton have achieved more A and B grades than the students in the rest of the Province.

(f) Physics 30 - more students have achieved A and B grades in the past two years in all areas of the Province than their counterparts of previous years. This increase is most apparent in both of the Calgary systems where 61-63% of the students have received a mark greater than 65%.

(g) French 30 - although a greater percentage of students obtain an A or B mark in this subject than in other disciplines there appears to be a greater amount of variation among the regions of the Province. In the Edmonton Separate schools about 53% of the students achieved an A or a B mark, whereas in Zone 6 an A or B was achieved by about 68% and in Calgary Separate an A or a B was achieved by about 73%.

SUMMARY

The data analysed during this six year period has revealed a number of consistencies in achievement and also a few areas of concern. Although there have been increases in the number of diplomas awarded and in students achieving University entrance, the increases have been paralleled by a similar increase in Grade XII enrolment. Of the students achieving University entrance, there has been some fluctuation in the percentage of students completing the four types of programs and in the percentage distribution in the achievement levels within the types of programs.

A review of the achievement in academic subjects among the regions of the Province has shown more similarities than differences. It appears that a larger percentage of students in Calgary and Edmonton achieved A and B grades in Social Studies 30 and Chemistry 30 than did students in other regions of the Province. Similarly, a higher percentage of Physics 30 students in Calgary (Public and Separate) achieved A and B scores than did students in other parts of the Province, also a larger percentage of French 30 students in Zone 6 and Calgary Separate achieved A and B marks.

Although the achievement of students in the two Calgary systems in all academic subjects was as good or better than that of students in other areas of the Province, it appears that the Calgary

"University-bound" students enrol in a less demanding program. This analysis shows that during the six year period about 10% fewer Calgary students enrolled in six academic programs than did students in the rest of the Province and that more of them enrolled in a program of four academic courses and one non-academic. The data also show that students enrolled in the less demanding programs had lower entrance averages. Since the entrance average obtained by students appears to be directly proprotional to the number of academic courses, this finding may be of concern to administrators, counsellors and teachers in the Calgary systems.

APPENDIX A

TABLE A

POSSIBLE UNIVERSITY CANDIDATES

1976-77

AVERAGES	60-69%			70-79%			80%+			TOTALS		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Condition A	651	618	1,269	684	735	1,419	446	486	932	1,781	1,839	3,620
Condition B	1,405	1,474	2,879	678	978	1,656	373	420	793	2,456	2,872	5,328
Condition C	937	1,259	2,196	212	418	630	28	78	106	1,177	1,755	2,932
Condition D	29	18	47	-	-	-	-	-	-	29	18	47
	3,022	3,369	6,391	1,574	2,131	3,705	847	984	1,831	5,443	6,484	11,927

POSSIBLE UNIVERSITY CANDIDATES

1977-78

AVERAGES	60-69%			70-79%			80%+			TOTALS		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Condition A	638	634	1,272	664	720	1,384	457	478	935	1,759	1,832	3,591
Condition B	1,275	1,463	2,738	716	895	1,611	348	360	708	2,339	2,718	5,057
Condition C	996	1,274	2,270	192	439	631	33	65	98	1,221	1,778	2,999
Condition D	24	18	42	-	-	-	-	-	-	24	18	42
	2,933	3,389	6,322	1,572	2,054	3,626	838	903	1,741	5,343	6,346	11,689

POSSIBLE UNIVERSITY CANDIDATES

1978-79

AVERAGES	60-69%			70-79%			80%+			TOTALS		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Condition A	645	612	1,257	679	749	1,428	445	441	886	1,769	1,802	3,571
Condition B	1,268	1,544	2,812	653	936	1,589	368	398	766	2,289	2,878	5,167
Condition C	950	1,354	2,304	187	418	605	33	63	96	1,170	1,835	3,005
Condition D	22	16	38	-	-	-	-	-	-	22	16	38
	2,885	3,526	6,411	1,519	2,103	3,622	846	902	1,748	5,250	6,531	11,781

POSSIBLE UNIVERSITY CANDIDATES

1979-80

AVERAGES	60-69%			70-79%			80% +			TOTALS		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Condition A	607	628	1,235	634	743	1,377	408	414	822	1,649	1,785	3,434
Condition B	1,266	1,447	2,713	653	960	1,613	369	409	718	2,288	2,816	5,104
Condition C	932	1,377	2,369	210	460	670	27	84	111	1,229	1,921	3,150
Condition D	11	17	28	-	-	-	-	-	-	11	17	28
	2,876	3,469	6,345	1,497	2,163	3,660	804	907	1,711	5,177	6,539	11,716

POSSIBLE UNIVERSITY CANDIDATES

1980-81

AVERAGES	60-69%			70-79%			80%+			TOTALS		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Condition A	657	694	1,351	733	844	1,577	526	492	1,018	1,916	2,030	3,946
Condition B	1,385	1,457	2,782	779	941	1,720	414	411	825	2,518	2,809	5,327
Condition C	1 035	1,381	2,416	211	505	716	30	73	103	1,276	1,959	3,235
Condition D	17	17	34	-	-	-	-	-	-	17	17	34
	3,034	3,549	6,583	1,723	2,290	4,013	970	976	1,946	5,727	6,815	12,542

POSSIBLE UNIVERSITY CANDIDATES

1981-82

AVERAGES	60-69%			70-79%			80%+			TOTALS		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Condition A	703	738	1,441	766	839	1,605	530	533	1,063	1,999	2,110	4,109
Condition B	1,439	1,546	2,985	754	955	1,709	430	410	840	2,623	2,911	5,534
Condition C	1,078	1,473	2,551	204	583	787	42	85	127	1,324	2,041	3,365
Condition D	21	25	46	-	-	-	-	-	-	21	25	46
	3,241	3,782	7,023	1,724	2,377	4,101	1,002	1,028	2,030	5,967	7,087	13,054

TABLE B

POSSIBLE UNIVERSITY CANADIDATES BY ZONE

1976-77

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Edmonton	Calgary	Others	Total
Condition A	110	320	242	319	208	335	1,202	759	125	3,620
Condition B	196	449	328	453	287	525	1,428	1,478	184	5,328
Condition C	110	224	154	169	144	278	825	935	93	2,932
Condition D	-	5	1	2	1	2	19	15	2	47
	416	998	725	943	640	1,140	3,474	3,187	404	11,927

POSSIBLE UNIVERSITY CANDIDATES BY ZONE

1977-78

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Edmonton	Calgary	Others	Total
ondition A	155	285	282	292	189	316	1,182	762	128	3,591
ondition B	180	467	340	449	282	459	1,340	1,366	174	5,057
ondition C	126	198	185	199	144	284	767	996	100	2,999
ondition D	2	6	1	3	4	3	17	6	-	42
	463	956	808	943	619	1,062	3,306	3,130	402	11,689

POSSIBLE UNIVERSITY CANDIDATES BY ZONE

1978-79

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Edmonton	Calgary	Others	Total
Condition A	160	365	242	307	223	338	1,070	734	132	3,571
Condition B	174	454	367	439	269	458	1,375	1,460	171	5,167
Condition C	115	218	164	167	128	319	724	1,056	114	3,005
Condition D	2	5	3	3	4	2	16	6	1	38
	451	1,042	776	916	624	1,117	3,185	3,256	418	11,781

POSSIBLE UNIVERSITY CANDIDATES BY ZONE

1979-80

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Edmonton	Calgary	Others	Total
Condition A	176	362	262	278	209	277	1,077	644	149	3,434
Condition B	185	477	333	416	271	522	1,405	1,299	196	5,104
Condition C	114	241	146	232	128	287	768	1,104	130	3,150
Condition D	1	3	5	2	2	3	5	6	1	28
	476	1,083	746	928	610	1,089	3,255	3,053	476	11,716

POSSIBLE UNIVERSITY CANDIDATES BY ZONE

1980-81

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Edmonton	Calgary	Others	Total
Condition A	174	431	312	310	219	352	1,153	839	156	3,946
Condition B	186	500	390	448	303	485	1,372	1,445	198	5,327
Condition C	99	264	198	227	174	294	758	1,079	142	3,235
Condition D	--	2	3	3	2	4	11	7	2	34
	459	1,197	903	988	698	1,135	3,294	3,370	498	12,542

POSSIBLE UNIVERSITY CANDIDATES BY ZONE

1981-82

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Edmonton	Calgary	Others	Total
Condition A	219	437	299	281	233	333	1,207	901	199	4,109
Condition B	193	525	359	455	267	533	1,426	1,545	231	5,534
Condition C	101	278	206	227	161	327	807	1,104	154	3,365
Condition D	3	3	4	6	-	1	17	10	2	46
	516	1,243	868	969	661	1,194	3,457	3,560	586	13,054

PERCENTAGE DISTRIBUTION OF SCHOOL MARKS BY ZONE TABLE C

3100 English 30

	N.W.T.& CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82
A	8.8	11.9	7.4	9.8	9.2	13.1	7.8	9.1	7.2	7.9	9.1	9.5	8.4	12.0	9.9	11.4	12.3	9.9
B	40.9	39.2	33.7	36.4	39.9	35.7	34.9	35.3	31.7	35.5	36.1	37.6	34.2	35.9	34.2	40.7	41.2	39.3
C	42.2	41.6	42.4	44.2	44.4	44.8	47.5	46.2	49.7	47.3	46.3	44.3	48.5	44.4	48.5	40.4	39.7	42.9
D	4.9	5.2	10.1	8.7	5.4	5.4	7.6	7.3	10.2	7.7	6.9	7.1	6.9	6.9	6.6	5.6	5.5	6.1
F	3.2	2.1	6.4	0.9	1.0	1.1	2.3	2.2	1.3	1.6	1.7	1.6	2.0	.7	.8	1.9	1.3	1.8
N	308	286	297	815	774	835	963	1,048	1,020	2,933	3,079	3,419	1,577	1,727	1,571	1,047	1,227	1,161
Mean	62.8	64.2	59.9	63.8	64.1	64.7	62.2	62.2	61.2	62.5	63.1	63.3	62.4	63.8	63.2	64.5	65.3	64.0
S.D.	12.9	12.6	14.2	11.4	11.9	11.8	11.6	12.1	11.7	11.5	11.5	11.6	11.6	11.5	11.1	12.2	11.6	11.3

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE			TOTAL		
	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82
A	13.5	13.4	12.6	14.1	10.7	11.4	7.9	7.2	9.2	7.6	11.0	11.3	14.0	14.7	17.2	10.1	10.9	11.0
B	38.1	40.6	38.7	39.2	40.6	38.7	37.4	38.5	37.3	38.5	41.6	39.9	37.3	42.0	37.4	37.5	39.4	37.7
C	42.0	40.1	42.6	38.2	38.7	39.1	47.5	47.0	47.2	46.5	41.0	38.9	40.9	35.5	37.1	44.3	42.0	42.4
D	5.2	5.2	4.4	5.1	6.5	6.6	5.0	5.6	5.1	5.0	4.7	6.6	6.1	6.4	6.1	6.0	6.0	6.5
F	1.2	.7	1.6	3.4	3.5	4.2	2.2	1.7	1.2	2.3	1.7	3.2	1.7	1.4	2.1	2.1	1.7	2.3
N	1,856	1,845	1,843	3,080	3,075	3,113	1,227	1,083	1,118	4,012	4,053	4,129	1,069	1,290	1,352	18,887	19,487	19,858
Mean	65.1	65.5	64.6	64.3	63.4	63.1	62.8	62.9	63.5	62.8	64.2	63.5	64.3	66.8	65.6	63.3	64.0	63.5
S.D.	1?.7	11.5	11.9	13.1	13.0	13.2	11.3	11.5	11.0	11.6	11.6	12.9	12.9	13.4	13.0	11.9	11.8	12.2

3150 Social Studies 30

	N.W.T. CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82
A	10.9	9.2	13.2	11.4	9.8	12.9	13.2	17.0	13.0	11.4	13.2	13.5	12.6	11.1	11.8	13.4	13.8	14.8
B	30.8	42.1	36.6	31.9	40.4	37.0	31.9	27.6	33.7	35.2	36.5	36.4	34.2	35.5	36.2	35.2	38.3	37.5
C	41.7	36.0	36.6	46.6	41.8	41.6	44.7	38.5	45.1	43.0	41.0	41.3	44.2	43.5	43.3	39.4	39.7	40.6
D	10.4	9.6	7.0	8.5	6.5	7.3	9.2	13.2	6.9	9.4	7.7	7.8	7.4	8.4	6.7	10.1	6.7	5.9
F	6.2	3.1	6.6	1.6	1.4	1.2	1.0	3.7	1.3	0.9	1.6	1.0	1.6	1.5	2.0	1.9	1.6	1.3
N	211	261	243	730	705	765	812	892	843	2,166	2,310	2,373	1,314	1,362	1,327	770	872	854
Mean	61.1	63.4	63.0	62.8	64.0	64.9	63.5	63.0	63.9	63.5	65.2	64.6	63.5	63.3	63.9	63.8	64.7	65.3
S.D.	14.3	13.1	16.2	12.3	11.9	12.3	12.4	15.2	12.6	12.2	15.2	12.3	12.5	12.2	12.5	13.4	12.6	12.5

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE			TOTAL		
	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82
A	17.1	15.7	17.0	14.6	18.3	16.9	11.9	16.0	15.6	13.8	17.1	16.6	17.7	20.3	17.1	13.7	15.2	15.1
B	35.8	35.7	36.2	36.1	37.5	37.2	33.0	33.1	34.2	40.3	40.8	39.4	38.4	39.3	37.0	35.8	37.5	36.8
C	38.9	41.0	39.1	39.6	36.1	38.6	44.0	41.6	39.3	37.3	35.2	35.2	33.6	32.3	37.6	40.7	38.9	39.5
D	6.8	7.1	6.6	7.5	5.8	5.7	8.1	7.2	7.6	6.3	5.1	6.6	7.3	5.9	6.2	7.9	6.8	6.7
F	1.4	.5	1.1	2.1	2.3	1.7	3.0	2.1	3.4	2.3	1.8	2.2	2.9	2.2	2.1	1.9	1.7	1.8
N	1,476	1,500	1,480	2,321	2,310	2,298	1,013	900	951	2,441	2,407	2,378	818	938	982	14,072	14,400	14,494
Mean	63.4	65.3	65.5	64.2	65.6	65.5	62.2	63.7	63.7	64.6	65.9	65.1	63.4	66.8	65.6	64.0	64.9	64.8
S.D.	13.0	12.5	12.5	13.3	13.6	12.8	13.3	13.6	14.0	12.9	13.0	13.1	14.0	13.4	13.2	12.8	12.8	12.7

3100 English 30

	N.W.T. & CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79
A	12.2	14.3	9.4	8.0	7.5	8.6	10.7	9.8	8.3	8.5	8.0	8.6	9.9	9.1	10.4	12.0	11.1	12.4
B	43.5	35.0	38.7	35.9	39.9	34.1	36.7	32.7	32.3	34.4	36.0	36.7	37.0	34.7	35.1	41.2	42.5	40.5
C	34.2	40.2	40.4	47.5	44.7	49.2	43.2	46.0	48.5	45.9	46.0	46.9	43.4	46.8	46.3	40.7	39.8	40.7
D	4.2	5.0	6.0	7.4	7.2	6.6	7.6	9.6	8.9	8.6	7.0	6.6	7.9	7.9	6.9	4.9	5.7	5.5
F	5.8	5.5	5.5	1.1	0.7	1.5	1.8	1.9	2.0	2.7	2.0	1.2	1.8	1.5	1.3	1.0	0.9	0.9
N	377	343	364	810	823	789	1,143	1,063	928	2,476	2,636	2,852	1,692	1,548	1,618	1,063	1,071	1,070
Mean	64.0	63.3	61.7	62.7	63.5	62.5	63.1	62.1	61.7			63.0	63.2	62.6	63.2			65.0
S.D.	14.2	15.0	15.4	11.3	10.7	11.6	12.8	12.0	12.3			11.0	11.5	11.5	11.5			11.7

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE			TOTAL		
	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79
A	16.6	14.3	12.7	14.5	12.8	13.3	8.7	6.7	7.9	12.5	11.9	11.7	14.0	14.5	15.2	12.1	11.1	11.1
B	37.6	37.8	38.1	38.7	39.0	38.8	33.9	33.7	33.9	38.7	39.2	40.7	41.5	33.6	38.9	37.7	37.4	37.8
C	38.7	42.3	42.8	35.7	38.7	38.1	50.0	49.0	49.2	38.0	39.5	39.5	35.5	40.3	36.8	40.5	42.4	42.7
D	5.1	4.9	4.6	6.5	5.8	6.1	4.8	7.1	6.1	6.4	6.4	5.0	6.0	8.9	6.1	6.6	6.7	6.0
F	2.0	0.7	1.8	4.5	3.7	3.7	2.6	3.5	2.9	4.4	3.0	3.1	3.0	2.7	3.0	3.1	2.4	2.4
N	1,895	1,802	1,867	3,698	3,477	3,017	1,217	1,230	1,149	4,068	4,196	4,008	1,025	1,058	1,039	19,464	19,247	18,701
Mean	65.6	65.3	64.8	63.9	63.6	63.8	64.0	61.0	61.8	62.9	63.4	63.6	65.3	63.6	65.2	63.5	63.3	63.5
S.D.	12.7	11.7	12.0	14.3	13.3	13.4	13.7	12.2	12.2	13.6	12.9	13.0	13.1	13.5	13.5	12.8	12.4	12.4

3150 Social Studies 30

	N.W.T. & CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79
A	19.7	17.9	12.5	7.8	7.7	9.3	16.0	13.8	12.5	10.6	11.7	13.0	11.1	12.3	14.2	16.0	11.9	11.6
B	33.4	32.4	31.7	26.7	34.5	29.9	34.2	32.9	35.3	34.1	36.0	34.9	32.5	31.2	32.2	35.9	33.1	36.0
C	30.3	37.1	38.0	54.2	43.3	45.6	40.2	36.7	39.8	42.7	41.7	40.1	45.0	44.0	41.0	37.4	41.2	43.1
D	10.9	8.3	10.8	9.6	12.6	13.3	8.8	10.7	10.9	10.2	8.6	9.5	8.3	10.5	10.6	8.7	12.8	8.0
F	5.6	4.4	7.0	1.6	1.9	1.9	1.0	2.9	1.5	2.4	2.0	2.5	3.0	2.0	2.0	1.8	1.0	1.3
N	320	340	287	731	771	739	978	860	850	2,032	2,034	2,140	1,441	1,353	1,330	823	817	786
Mean	63.9	63.6	62.0	60.9	61.6	61.4	64.7	62.9	63.0			63.5	62.7	62.8	63.6			64.2
S.D.	16.1	15.1	15.2	11.7	12.3	12.9	13.0	13.5	12.9			12.9	12.8	13.0	13.4			12.4

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE			TOTAL		
	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79
A	16.8	15.8	14.3	15.9	17.5	15.3	15.8	14.8	10.4	15.5	15.3	14.2	20.2	18.5	13.9	14.7	14.5	13.4
B	38.5	34.2	33.8	33.8	34.3	36.5	33.8	33.2	32.5	37.5	37.2	39.4	38.7	39.1	36.9	34.9	34.7	35.3
C	36.5	39.7	39.7	40.8	39.6	38.7	39.9	41.0	44.1	36.2	38.9	37.5	30.1	34.2	37.5	39.8	40.2	40.0
D	6.3	8.3	10.5	6.8	6.5	6.6	8.3	8.5	9.8	7.3	6.2	5.9	4.8	3.8	9.5	7.9	8.3	8.9
F	1.9	2.0	1.7	2.8	2.1	2.9	2.2	2.5	3.2	3.5	2.4	3.0	6.3	4.4	2.2	2.7	2.3	2.4
N	1,485	1,511	1,488	2,832	2,557	2,271	1,077	939	973	2,632	2,624	2,488	734	752	754	15,085	14,558	14,106
Mean	65.5	64.3	64.1	64.2	65.0	64.3	64.0	63.1	61.6	63.8	64.3	64.2	65.0	65.6	63.9	63.8	63.8	63.4
S.D.	13.0	13.4	13.2	13.7	13.4	13.8	13.7	13.7	13.3	14.1	13.2	13.2	15.6	14.4	13.5	13.4	13.2	13.2

3200 Mathematics 30

	N.W.T. & CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82
A	24.7	20.2	20.1	16.3	16.5	17.1	13.2	17.0	17.0	16.9	20.1	19.8	16.8	18.5	19.2	17.0	16.6	17.5
B	27.2	34.8	38.7	31.1	26.9	34.0	32.4	26.6	26.6	29.6	29.6	28.1	29.9	29.1	29.6	27.6	31.3	30.5
C	34.3	33.0	34.3	39.6	39.3	39.2	38.9	38.5	40.4	39.9	38.7	39.5	41.4	41.8	38.8	36.8	41.3	38.0
D	6.7	7.3	5.0	9.7	14.1	7.5	13.1	13.2	11.9	10.9	9.3	9.8	9.3	7.9	9.4	13.5	8.3	10.6
F	7.1	4.7	2.0	3.3	3.2	2.2	2.4	3.7	4.0	2.7	2.3	2.8	2.6	2.8	3.0	5.0	2.5	3.5
N	239	233	204	578	588	544	831	892	846	2,282	2,456	2,709	1,250	1,331	1,329	798	920	926
Mean	65.5	65.0	67.0	63.4	62.6	65.0	62.7	63.0	62.9	63.7	65.2	64.6	63.9	64.5	64.7	62.8	64.2	64.1
S.D.	17.4	17.0	14.8	14.7	15.0	14.2	14.1	15.2	15.0	14.6	15.2	15.1	14.6	14.5	14.7	15.7	14.3	15.1

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE			TOTAL		
	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82
A	20.2	20.5	20.4	17.7	19.4	18.4	11.3	15.8	15.7	16.0	19.2	17.2	20.1	19.4	18.8	16.8	18.9	18.3
B	29.0	29.6	30.6	26.9	26.3	24.8	27.1	28.1	27.4	33.3	30.4	30.8	30.7	29.7	28.5	29.9	29.1	28.9
C	39.0	38.7	38.0	36.3	36.3	36.6	46.5	43.2	43.0	38.1	37.9	39.3	38.3	39.7	38.3	39.0	38.8	38.8
D	9.0	8.8	8.3	12.4	12.4	12.8	11.3	9.9	10.1	9.2	9.3	8.8	8.3	8.2	11.2	10.5	9.9	10.0
F	2.8	2.4	2.7	6.6	5.6	7.4	3.9	3.0	3.9	3.4	3.2	3.9	2.6	3.0	3.2	3.8	3.3	3.9
N	1,360	1,455	1,468	2,402	2,518	2,552	994	887	935	3,314	3,542	3,692	846	993	1,099	14,874	15,815	16,304
Mean	64.6	64.9	65.2	62.0	62.6	61.6	60.5	62.6	62.3	63.5	64.2	63.6	65.0	65.1	64.1	63.3	64.0	63.7
S.D.	15.1	14.8	14.7	16.5	16.8	16.9	14.7	15.4	15.3	14.8	15.4	15.1	15.0	15.1	15.5	15.1	15.3	15.3

3211 Mathematics 31

	N.W.T. & CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82
A	44.7	47.2	28.0	28.0	35.2	30.7	34.7	30.5	35.5	32.3	37.7	38.6	44.5	34.0	30.2	28.0	32.0	31.1
B	21.3	30.2	52.0	28.0	34.1	43.3	39.6	41.3	30.4	34.1	31.4	32.1	31.3	36.0	39.3	39.7	32.3	34.8
C	17.0	18.9	16.0	34.4	23.1	22.0	21.8	22.2	24.6	25.5	23.2	22.7	20.3	25.7	24.9	23.7	27.1	26.6
D	10.6	3.8	4.0	6.5	6.6	4.0	4.0	4.8	7.2	6.6	6.3	5.0	2.1	2.3	4.0	6.5	7.4	6.2
F	6.4	0.0	0.0	3.2	1.1	0.0	0.0	1.2	2.2	1.5	1.4	1.5	1.8	1.7	1.6	2.2	1.1	1.3
N	47	53	50	93	91	150	101	167	138	542	570	713	281	303	321	232	269	305
Mean	70.4	76.2	73.1	68.4	70.8	71.9	72.3	71.7	70.2	70.6	71.9	72.7	74.8	71.5	71.1	70.0	70.0	70.0
S.D.	20.5	17.0	15.7	17.4	17.6	13.9	14.4	14.4	16.7	15.0	15.8	15.4	15.0	14.3	14.7	15.7	15.6	14.6

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE			TOTAL		
	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82
A	37.5	41.7	38.3	37.2	41.4	36.1	29.2	29.9	28.2	27.3	32.0	29.6	40.5	39.1	37.4	33.3	36.0	33.6
B	32.8	32.4	35.8	33.6	29.7	33.0	40.6	37.9	36.7	37.0	35.2	34.9	28.7	30.6	38.0	34.7	33.3	35.2
C	23.3	20.6	23.1	24.5	22.7	24.7	26.2	28.0	28.6	26.3	26.5	26.7	23.6	23.6	18.8	24.8	24.4	24.4
D	6.1	3.7	2.5	3.7	3.9	4.7	3.5	3.3	4.1	6.7	4.8	4.7	5.1	3.9	3.3	5.4	4.6	4.5
F	0.3	1.6	.3	1.0	2.4	2.2	0.5	1.0	2.4	2.7	1.4	4.2	2.1	2.7	2.4	1.8	1.6	2.3
N	296	321	360	596	701	773	202	211	245	957	1,055	1,199	195	330	329	3,542	4,071	4,583
Mean	72.9	73.7	73.6	72.1	72.6	71.4	71.4	70.4	69.5	68.2	70.3	68.7	71.5	72.4	73.3	70.8	71.6	71.0
S.D.	15.4	15.9	14.3	14.8	15.8	15.3	13.5	14.5	15.3	15.4	14.8	16.5	16.3	16.9	15.7	14.9	15.1	15.2

3200 Mathematics 30

	N.W.T. & CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79
A	21.0	20.1	20.4	13.1	12.5	14.7	20.1	13.7	14.3	19.0	18.9	19.3	17.2	16.9	19.3	18.6	15.7	16.8
B	28.8	30.0	28.5	31.5	30.5	31.0	30.0	28.7	32.1	27.4	29.4	29.2	29.9	32.0	28.9	31.3	29.8	31.2
C	35.0	35.6	34.3	44.9	42.0	39.9	39.1	43.0	37.8	42.5	39.2	38.0	39.8	39.7	38.8	38.5	40.3	39.7
D	9.1	9.1	12.0	10.3	11.9	11.4	8.3	11.2	12.7	8.3	2.9	10.0	10.7	9.2	9.9	8.6	11.2	10.2
F	6.2	4.7	4.8	2.1	3.2	3.0	2.4	3.4	3.1	2.8	9.6	3.5	2.4	2.2	3.1	2.9	3.0	2.1
N	243	253	274	486	538	516	902	841	746	1,850	1,991	2,192	1,272	1,265	1,258	799	795	857
Mean	63.8	64.4	64.4	62.6	62.2	63.1	64.9	62.3	62.9			64.2	64.1	64.5	64.5			64.2
S.D.	17.1	16.8	17.3	13.7	14.3	14.7	14.4	14.3	14.4			15.2	12.6	14.0	15.1			14.3

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE			TOTAL		
	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79
A	22.5	20.2	18.2	15.1	16.7	17.2	14.9	13.3	12.2	17.2	16.3	16.9	18.6	22.6	21.9	17.6	17.0	17.4
B	30.0	29.3	30.4	27.7	26.7	25.3	29.4	29.0	29.3	28.9	29.9	30.2	27.7	26.4	31.3	28.8	29.1	29.3
C	37.6	38.5	40.8	39.8	38.8	38.9	45.2	43.2	45.3	37.5	38.1	39.1	38.9	40.4	35.5	39.5	39.5	39.3
D	7.6	9.1	8.3	11.8	12.1	12.0	6.8	11.1	10.5	10.8	10.1	9.8	10.8	8.6	9.4	10.1	10.4	10.3
F	2.4	2.9	2.3	5.6	5.7	6.6	3.6	3.4	2.7	5.5	5.6	4.1	3.9	2.0	1.9	3.9	4.0	3.7
N	1,478	1,367	1,446	2,677	2,526	2,326	884	920	921	3,396	3,582	3,414	812	780	785	14,844	14,858	14,735
Mean	65.9	64.6	64.4	61.3	61.6	61.5	62.8	61.9	61.6	62.5	62.4	63.0	63.4	65.5	65.8	63.3	63.1	63.4
S.D.	15.1	15.1	14.4	15.6	15.9	16.4	14.5	14.7	14.1	16.0	15.8	15.4	15.8	15.9	15.6	15.2	15.3	15.2

3211 Mathematics 31

	N.W.T. & CORRES.	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5
	1978 -79	1978 -79	1978 -79	1978 -79	1978 -79	1978 -79
A	40.5	32.9	36.3	37.4	37.1	30.1
B	26.2	39.5	35.5	31.2	30.8	41.7
C	19.0	21.0	22.6	24.2	25.1	25.1
D	9.5	6.6	4.8	5.9	4.7	3.1
F	4.8	0.0	0.8	1.3	2.3	0.0
N	42	76	124	454	299	223
Mean	70.9	71.6	71.9	71.8	71.2	71.7
S.D.	20.5	16.1	15.7	15.5	15.7	13.7

	ZONE 6	EDMONTON PUBLIC	EDMONTON SEPARATE	CALGARY PUBLIC	CALGARY SEPARATE	TOTAL
	1978 -79	1978 -79	1978 -79	1978 -79	1978 -79	1978 -79
A	36.4	33.9	25.1	32.0	38.2	34.0
B	35.7	38.2	35.8	37.8	31.9	35.8
C	23.9	22.4	32.5	24.5	24.0	24.4
D	3.1	4.1	6.1	3.6	3.8	4.3
F	.9	1.4	.5	2.1	2.1	1.5
N	319	566	212	966	238	3,519
Mean	73.1	71.9	67.7	70.5	72.5	71.3
S.D.	15.3	14.9	14.1	14.9	16.1	14.7

3230 Biology 30

	N.W.T. & CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82
A	8.9	12.6	15.0	9.9	10.8	10.8	13.2	12.3	13.1	14.7	14.7	15.5	14.7	15.7	17.3	15.4	12.6	12.9
B	21.8	30.6	31.8	34.4	29.7	31.8	28.7	33.3	27.4	32.3	36.5	34.7	33.4	34.9	32.4	32.3	37.5	35.5
C	46.4	42.6	31.2	43.5	48.9	47.0	46.5	40.6	46.5	45.0	40.6	42.9	40.8	41.3	43.0	40.1	39.0	41.7
D	14.0	8.2	13.9	10.1	9.4	9.0	9.0	12.4	11.2	7.5	6.9	5.6	9.7	6.3	5.7	10.1	9.5	8.8
F	8.9	6.0	8.1	2.1	1.2	1.4	2.5	1.5	1.9	2.2	1.2	1.3	1.5	1.8	1.7	2.1	1.3	1.1
N	179	183	173	526	489	509	763	757	734	1,943	2,059	2,128	1,170	1,200	1,145	779	817	758
Mean	57.6	62.0	61.5	63.0	62.6	63.3	62.4	62.3	62.2	63.6	65.1	65.1	64.1	64.9	65.2	63.9	64.3	63.9
S.D.	16.7	14.6	17.0	12.4	12.1	12.3	12.8	13.3	13.7	12.7	12.5	12.5	13.1	12.7	13.0	13.2	12.8	12.5

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE			TOTAL		
	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82
A	15.3	16.7	17.5	16.5	18.0	19.1	14.1	13.0	14.7	16.6	18.2	16.5	17.3	15.2	17.9	15.0	15.7	16.3
B	34.3	33.8	33.1	31.9	30.9	32.7	27.9	28.7	26.8	36.5	35.7	34.7	35.6	37.6	35.3	33.0	34.2	33.1
C	41.2	40.7	40.9	40.1	39.9	38.6	47.8	44.5	45.2	36.0	37.7	39.3	37.5	37.8	37.6	41.2	40.3	41.2
D	8.1	7.5	7.6	7.6	8.6	7.1	8.5	10.8	10.4	8.6	6.3	7.1	8.1	7.7	7.5	8.5	7.9	7.5
F	1.1	1.3	.9	3.8	2.6	2.5	1.7	2.9	2.9	2.3	2.1	2.4	1.4	1.7	1.7	2.3	1.9	1.9
N	1,272	1,287	1,304	2,159	2,121	2,223	822	714	761	2,395	2,463	2,527	850	891	827	12,858	12,981	13,089
Mean	64.9	64.8	65.1	63.8	64.2	65.1	62.6	61.8	62.1	64.4	65.2	64.4	65.1	64.9	65.4	63.8	64.4	64.5
S.D.	13.1	13.0	13.0	14.2	14.1	14.1	13.4	14.2	14.1	13.8	13.5	13.8	13.6	13.2	13.3	13.3	13.2	13.3

3240 Chemistry 30

	N.W.T. & CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82
A	9.5	12.7	15.6	13.6	12.7	15.2	16.1	17.2	14.1	18.5	21.1	20.5	17.0	15.5	17.2	17.5	16.2	16.1
B	31.8	39.6	37.0	32.7	35.1	35.6	32.3	29.0	31.5	32.3	32.1	32.6	31.0	33.8	29.9	33.1	37.7	34.4
C	38.5	34.3	40.7	41.5	42.6	38.4	40.0	40.0	40.6	37.7	38.2	38.1	40.4	39.5	41.3	38.4	36.5	38.9
D	14.9	9.7	5.2	11.1	8.4	9.7	8.9	11.0	11.8	9.5	7.2	7.6	9.6	8.2	9.6	8.3	7.6	9.0
F	5.4	3.7	1.5	1.1	1.2	1.2	2.9	2.8	1.9	2.1	1.5	1.2	2.0	3.0	1.9	2.6	2.0	1.6
N	148	134	135	523	502	534	660	727	672	1,901	2,183	2,196	1,058	1,182	1,091	721	814	790
Mean	60.5	63.6	65.2	63.8	64.2	64.8	64.0	63.6	63.4	65.0	66.2	66.3	64.3	64.0	64.1	64.7	65.7	65.0
S.D.	15.5	14.6	13.9	13.5	12.7	13.3	13.9	14.5	14.2	14.0	14.1	14.1	14.2	14.1	14.0	14.1	13.3	13.9

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE			TOTAL		
	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82
A	21.3	22.9	22.0	19.4	21.8	20.1	16.8	15.8	17.1	24.3	25.0	21.8	20.1	22.4	18.1	19.2	20.4	19.3
B	32.1	31.7	31.5	32.8	31.5	29.9	27.1	31.1	28.1	34.7	35.4	35.7	37.0	32.4	33.8	32.5	33.0	32.4
C	37.4	35.2	37.0	36.8	35.7	37.0	43.8	40.2	43.1	31.2	32.3	31.7	35.6	34.4	38.1	37.4	36.6	37.4
D	8.0	8.8	7.8	8.3	8.3	9.4	10.1	9.7	8.0	6.7	5.0	7.1	6.3	8.8	7.5	8.6	7.8	8.4
F	1.2	1.5	1.8	2.7	2.8	3.5	2.2	3.1	3.8	3.1	2.3	3.7	1.1	2.0	2.4	2.3	2.2	2.5
N	1,160	1,279	1,187	2,324	2,411	2,519	911	815	826	1,956	2,326	2,403	568	660	789	11,930	13,033	13,142
Mean	66.1	66.6	66.2	65.1	65.6	64.5	63.1	63.2	63.1	66.6	67.9	66.0	66.9	66.1	65.2	65.1	65.8	65.1
S.D.	14.6	14.7	14.5	14.5	14.9	15.1	14.5	14.8	15.4	15.1	14.6	15.1	13.9	14.6	14.2	14.3	14.3	14.5

3230 Biology 30

	N.W.T. & CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79
A	12.2	17.6	11.3	11.8	11.9	13.9	14.2	12.1	13.6	12.0	11.8	13.5	14.3	15.3	15.9	13.1	13.0	12.8
B	40.8	23.6	25.0	37.2	36.7	30.2	32.8	30.8	31.4	32.7	33.1	35.0	35.1	35.2	29.2	36.0	33.0	36.6
C	36.3	45.8	42.7	42.7	43.3	45.4	43.4	42.4	43.2	45.6	45.1	42.4	39.9	39.8	41.7	42.9	46.1	42.9
D	6.3	8.6	10.5	7.0	6.7	9.4	8.0	11.6	9.6	8.2	7.8	7.1	8.9	7.6	10.3	6.3	6.6	6.2
F	4.4	4.3	10.5	1.3	1.3	1.1	1.6	3.1	2.2	1.5	2.2	2.0	1.8	2.1	2.9	1.6	1.3	1.5
N	270	233	248	541	520	553	873	760	740	1,679	1,786	1,889	1,287	1,205	1,183	725	772	793
Mean	63.4	62.0	58.7	62.0	63.8	63.2	63.9	62.0	63.0			64.0	64.4	64.5	63.1			64.9
S.D.	14.7	15.7	17.0	12.4	12.3	12.8	13.2	13.2	13.6			13.0	13.1	13.3	14.0			12.3

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE			TOTAL		
	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79
A	17.3	15.4	15.4	15.5	15.2	17.1	15.9	17.6	13.7	16.9	16.0	15.2	16.7	19.5	17.0	15.1	14.9	15.0
B	31.8	36.8	33.0	33.3	33.6	32.0	29.3	31.7	33.7	34.3	35.6	36.1	33.8	29.0	34.6	33.6	33.8	33.4
C	41.9	39.2	43.1	38.0	39.5	39.9	43.2	38.7	41.0	37.3	37.6	37.9	38.4	39.8	39.4	40.4	40.6	41.0
D	7.5	7.2	7.1	9.3	8.9	8.0	9.6	7.8	9.2	7.7	6.9	7.1	7.7	8.5	6.6	8.2	7.9	7.9
F	1.5	1.4	1.4	3.9	2.8	3.0	2.0	4.2	2.4	3.8	3.9	3.7	3.4	3.2	2.4	2.7	2.8	2.7
N	1,292	1,187	1,276	2,639	2,491	2,180	898	840	837	2,754	2,781	2,579	763	686	731	13,671	13,261	13,009
Mean	64.8	65.1	64.5	63.2	63.5	64.1	63.4	63.7	63.2	63.9	64.1	63.8	64.3	64.4	64.9	63.8	63.8	63.8
S.D.	13.3	12.9	13.0	14.3	13.7	14.3	13.7	15.0	14.0	14.7	14.4	14.1	14.8	14.5	14.2	13.6	13.5	13.6

3240 Chemistry 30

	N.W.T. & CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79
A	8.9	12.7	18.6	11.8	21.4	14.4	13.3	17.4	18.4	16.2	17.4	20.7	14.2	19.9	17.0	15.2	12.8	16.8
B	27.9	31.8	22.2	35.6	38.5	33.9	35.7	28.0	27.6	31.2	35.8	31.3	32.8	33.5	31.9	33.9	34.0	35.1
C	39.2	40.0	42.1	42.3	29.6	36.3	39.8	42.1	38.8	38.3	37.0	38.9	43.1	36.2	40.0	40.1	41.7	39.6
D	6.3	12.7	11.4	6.7	7.8	11.6	9.0	10.9	10.1	12.5	7.8	7.3	8.4	8.1	8.9	7.6	9.3	6.9
F	17.7	2.7	5.7	3.6	1.6	3.8	2.2	1.6	5.1	1.8	2.0	1.8	1.5	2.3	2.2	2.7	2.2	1.6
N	79	110	140	194	243	292	400	321	467	554	995	1,312	725	735	872	368	312	567
Mean	56.6	62.3	61.2	63.4	66.9	63.4	63.6	63.2	63.6			65.6	64.1	65.4	64.4			65.0
S.D.	17.6	15.6	17.5	13.7	13.8	14.9	13.3	14.6	15.5			14.1	13.0	14.2	14.0			13.3

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE			TOTAL		
	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79
A	19.7	19.7	18.0	17.7	23.7	20.6	21.6	16.2	3.4	18.3	18.5	19.8	0.0	42.9	37.5	16.6	19.6	19.2
B	33.5	27.0	31.7	40.7	31.0	30.5	19.6	37.9	27.6	31.7	36.7	35.2	50.0	14.2	56.2	32.5	33.0	31.7
C	38.1	44.5	39.0	31.6	33.3	36.2	37.7	32.4	55.2	38.3	35.8	35.2	50.0	42.9	6.3	39.2	36.8	37.7
D	7.3	7.5	9.7	7.8	8.6	8.8	16.5	13.5	6.9	8.4	6.6	6.5	0.0	0.0	0.0	9.1	8.2	8.4
F	1.4	1.3	1.6	2.2	3.4	3.9	4.6	0.0	6.9	3.3	2.4	3.3	0.0	0.0	0.0	2.6	2.4	3.0
N	704	559	634	231	1,406	2,318	260	37	29	842	815	1,051	2	7	16	4,359	5,540	7,698
Mean	66.0	64.9	64.6	65.6	65.9	64.7	61.9	65.4	58.0	64.0	65.6	65.3	66.0	70.9	77.5	64.1	65.3	64.7
S.D.	14.1	14.0	14.4	14.6	15.8	15.5	17.2	17.1	17.5	15.4	14.5	14.6	17.2	13.6	22.3	14.3	14.3	14.6

3260 Physics 30

	N.W.T. & CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82
A	22.3	20.4	20.8	25.1	18.5	14.5	17.4	18.4	11.7	22.6	24.3	23.4	18.0	21.0	18.5	20.2	27.4	24.3
B	38.4	34.4	38.5	36.1	32.8	36.9	30.7	31.8	41.6	32.6	32.5	33.5	31.2	31.8	32.5	33.4	30.9	35.5
C	28.6	38.7	33.3	30.4	39.1	42.8	39.2	37.7	37.8	34.1	34.6	32.5	36.6	37.4	36.1	33.1	34.2	33.3
D	8.0	4.3	6.3	6.2	8.8	5.1	9.8	10.2	6.7	9.5	7.3	9.1	12.2	7.3	8.9	9.7	6.0	5.7
F	2.7	2.2	1.0	2.2	1.0	.8	2.8	2.0	2.2	1.1	1.3	1.5	2.1	2.4	4.0	3.6	1.5	1.2
N	112	93	96	227	238	255	316	305	315	1,104	1,259	1,378	584	575	606	362	398	420
Mean	67.5	67.0	67.9	67.8	65.4	65.9	63.9	64.7	64.8	66.8	67.7	67.2	64.2	65.6	65.0	65.8	68.3	68.0
S.D.	15.6	14.7	14.5	14.8	13.9	12.4	14.9	14.2	13.2	14.8	14.6	14.9	14.9	14.7	15.1	15.3	14.2	14.2

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE			TOTAL		
	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82
A	21.6	24.9	23.4	23.1	24.3	22.1	23.3	21.4	23.7	19.3	25.8	25.2	19.5	36.2	27.5	21.1	24.6	22.7
B	34.2	31.8	35.6	33.1	36.2	34.7	34.0	37.4	28.5	36.4	37.5	38.0	33.2	26.5	33.9	33.8	33.9	35.2
C	35.8	34.6	31.3	35.2	30.4	35.1	35.6	32.8	39.4	33.7	29.2	29.4	36.3	30.6	30.1	34.8	33.0	33.3
D	7.3	7.0	8.2	6.6	6.2	5.7	5.6	7.4	5.8	6.8	5.1	4.7	6.2	3.9	5.2	8.0	6.5	6.6
F	1.0	1.7	1.4	2.0	2.9	2.5	1.6	1.0	2.5	3.8	2.3	2.6	4.9	2.8	3.3	2.3	2.0	2.2
N	681	755	721	1,074	1,204	1,221	450	393	396	1,276	1,385	1,638	226	389	422	6,412	6,994	7,468
Mean	66.6	67.2	67.3	66.6	67.0	66.4	67.0	66.7	66.2	65.6	68.1	68.2	65.2	70.7	68.4	66.1	67.3	67.0
S.D.	13.7	14.6	14.7	14.5	15.1	14.1	14.7	13.8	15.2	15.3	14.7	14.5	15.9	17.6	15.6	14.6	14.6	14.4

3300 French 30

	N.W.T. & CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82
A	12.1	25.0	52.6	18.8	24.1	23.5	21.8	23.0	24.7	23.7	24.5	19.7	20.3	22.5	23.5	27.1	28.4	28.7
B	45.5	36.4	26.3	42.6	36.9	38.9	35.8	41.4	41.7	37.5	39.4	38.2	35.7	41.3	37.4	33.6	46.4	36.5
C	36.4	29.5	18.4	31.2	30.3	31.4	35.1	29.3	28.3	34.1	31.5	35.9	36.0	31.3	34.0	32.5	23.7	27.0
D	6.1	9.1	2.6	5.0	7.5	4.4	7.0	6.3	4.5	4.1	4.2	5.5	7.0	3.1	4.3	5.4	1.4	7.2
F	0.0	0.0	0.0	2.5	1.2	1.8	0.4	0.0	0.8	0.7	.4	0.7	0.9	1.8	0.8	1.4	0.0	0.7
N	33	44	38	202	241	226	271	304	247	763	911	934	428	383	374	277	278	293
Mean	67.1	68.0	74.6	67.1	68.0	68.5	67.5	68.6	69.3	68.6	68.8	67.2	66.2	68.6	68.5	68.8	72.0	69.7
S.D.	16.0	16.3	17.2	14.3	14.3	14.3	13.6	13.1	14.0	12.6	12.5	12.8	13.0	13.4	13.6	13.9	12.2	14.6

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE			TOTAL		
	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82	1979 -80	1980 -81	1981 -82
A	31.7	28.6	35.5	22.6	19.2	17.8	13.3	18.3	15.8	28.6	28.5	26.9	41.8	39.8	38.2	24.8	25.5	24.6
B	38.5	40.1	34.9	38.6	37.9	39.8	37.2	39.2	35.3	39.2	37.2	41.2	32.3	33.8	34.1	37.5	39.1	38.6
C	26.1	28.4	25.8	33.6	36.2	38.3	43.4	36.0	44.0	24.6	28.9	27.1	20.9	22.9	21.4	31.7	30.3	31.6
D	3.7	2.9	3.5	4.3	4.9	3.4	5.1	5.4	4.9	5.5	4.8	3.1	4.0	2.6	4.0	5.0	4.3	4.3
F	0.0	0.0	0.3	0.9	1.9	0.9	1.0	1.1	0.0	2.1	.7	1.1	1.0	.9	2.3	1.0	.8	0.9
N	410	377	372	583	536	583	196	186	184	525	901	939	201	231	173	3,889	4,392	4,363
Mean	71.3	70.5	72.0	67.7	66.6	67.0	64.5	66.8	65.4	69.5	69.4	70.3	72.5	73.2	72.4	68.5	69.1	68.9
S.D.	13.7	13.1	13.8	13.2	13.1	12.7	12.6	13.5	13.0	14.2	13.4	13.3	15.1	13.8	15.7	13.1	12.8	13.2

3245 Chemistry 30X

	N.W.T. CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79
A	16.5	16.0	20.0	15.9	8.3	9.2	17.4	12.8	9.2	16.3	16.3	18.5	13.2	15.5	14.5	13.1	15.0	16.3
B	43.7	24.0	40.0	30.0	34.0	41.7	34.7	35.3	29.9	32.6	36.3	33.9	29.4	30.6	32.4	32.5	28.0	28.9
C	29.1	40.0	28.6	40.6	45.5	35.0	37.6	44.8	54.1	40.1	40.1	39.7	42.3	48.6	41.4	44.8	44.2	44.4
D	8.7	18.0	5.7	10.1	9.5	13.5	10.0	7.1	5.7	8.2	6.4	7.1	11.7	4.4	11.0	7.8	11.0	8.2
F	2.0	2.0	5.7	3.4	2.8	.6	0.3	0.0	1.1	2.8	0.9	0.8	3.4	0.9	0.7	1.8	1.8	2.2
N	103	50	35	207	253	163	311	337	87	1,004	674	504	357	317	145	382	346	135
Mean	66.2	62.2	65.8	63.0	62.4	63.5	65.5	65.2	63.2			66.0	62.1	64.8	63.8			64.3
S.D.	14.5	17.4	19.1	15.1	13.4	13.7	13.9	12.4	13.9			13.4	14.2	13.1	13.7			15.0

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE			TOTAL		
	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79
A	18.1	21.4	20.2	18.2	16.7		16.9	17.9	16.1	23.8	20.9	23.0	21.3	23.5	22.1	18.5	18.0	19.2
B	32.0	32.3	33.0	32.1	31.6		31.5	33.0	30.0	36.7	36.2	36.5	34.1	25.9	35.8	33.1	32.9	34.1
C	41.7	35.6	37.4	36.6	39.1		40.4	38.6	41.3	32.4	33.6	32.9	34.7	38.0	33.8	37.5	38.8	37.2
D	6.3	8.7	7.7	9.2	9.7		8.9	8.0	9.9	1.3	6.8	6.2	8.4	9.9	7.4	8.2	8.1	7.9
F	1.9	2.0	1.7	3.9	2.9		2.3	2.5	2.7	1.8	2.5	1.4	1.5	2.7	0.9	2.7	2.2	1.6
N	463	495	460	2,611	1,216		688	803	849	1,444	1,461	1,249	593	548	544	8,163	6,500	4,171
Mean	64.9	65.6	65.7	64.1	63.6		63.7	64.5	63.2	67.2	66.0	67.1	66.4	65.3	67.1	64.8	64.8	65.6
S.D.	14.2	15.1	14.6	15.0	14.2		14.5	15.0	14.5	13.9	14.3	13.9	14.8	15.6	14.0	14.3	14.1	13.9

3260 Physics 30

	N.W.T. CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79
A	28.9	20.8	21.1	13.6	14.2	18.0	16.8	12.6	16.9	20.1	21.0	25.5	23.3	20.0	22.5	17.4	19.4	22.0
B	26.1	31.7	33.7	28.1	28.9	38.8	31.0	27.2	30.5	34.1	31.6	29.3	31.3	33.4	32.0	34.9	31.1	34.0
C	27.9	28.3	33.7	44.3	42.7	35.1	35.7	48.6	36.9	35.1	38.0	35.7	38.1	37.4	35.4	39.3	41.8	35.1
D	9.9	18.3	10.5	12.2	9.8	6.3	12.5	10.9	8.6	8.9	8.0	7.5	6.6	7.5	8.1	7.1	6.5	6.8
F	7.2	0.8	1.0	1.8	4.4	1.8	4.0	0.7	7.1	1.7	1.4	2.0	0.7	1.7	2.0	1.2	1.2	2.1
N	111	120	104	221	225	222	303	294	255	712	927	977	604	604	556	407	402	382
Mean	65.3	64.3	65.4	61.9	62.7	66.1	63.6	62.6	63.5			67.3	66.7	66.0	66.5			66.8
S.D.	18.8	16.8	16.1	14.4	15.0	14.1	15.0	13.1	16.2			15.3	14.1	14.2	14.6			14.3

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE			TOTAL		
	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	1976-77	1977-78	1978-79
A	22.6	22.4	22.0	21.1	26.2	23.1	22.1	18.7	24.0	23.0	21.4	24.7	28.9	27.1	28.9	21.5	21.4	23.4
B	38.0	32.0	33.9	33.5	34.6	34.3	34.4	36.6	35.6	34.8	34.8	34.8	36.0	25.7	31.8	33.9	32.8	33.2
C	32.7	36.6	33.0	35.7	31.8	31.5	35.1	35.1	27.8	31.1	32.4	29.8	28.5	33.2	34.3	34.7	35.9	33.0
D	5.4	7.2	8.3	7.2	4.9	7.9	6.6	7.7	8.8	6.8	7.5	5.7	4.7	9.2	3.7	7.5	7.5	7.3
F	1.3	1.8	2.8	2.5	2.5	3.2	1.8	1.9	3.8	4.3	3.9	5.0	1.9	4.8	1.3	2.4	2.4	3.1
N	685	568	567	971	1,108	942	393	413	399	1,259	1,229	1,079	211	229	242	5,877	6,119	5,725
Mean	67.8	66.5	66.1	65.8	67.7	66.1	66.6	65.3	66.3	65.9	65.6	66.6	70.3	67.1	70.1	66.8	65.9	66.5
S.D.	13.8	14.7	15.3	15.1	14.7	15.7	14.7	15.4	16.1	16.1	16.2	16.3	15.6	17.7	16.5	14.8	14.8	15.3

3265 Physics 30X

	N.W.T. CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79
A						100.0	25.7	30.8	19.0	12.7	6.8	20.9						
B						0.0	40.0	17.9	38.1	30.6	41.9	20.8						
C						0.0	34.3	51.3	42.9	40.3	48.6	20.9						
D						0.0	0.0	0.0	0.0	15.8	2.7	33.3						
F						0.0	0.0	0.0	0.0	0.7	-	4.1						
N						1	35	39	21	134	74	24						
Mean						80.0	68.6	67.3	69.2			59.7						
S.D.						0.0	16.5	16.8	20.0			21.9						

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE			TOTAL		
	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79
A	26.0	22.9	23.8	15.1	18.2	18.5				22.8	19.7	19.6	38.9	50.0	26.8	20.4	21.1	21.1
B	31.5	32.1	30.0	31.7	37.5	37.0				37.4	36.4	35.4	47.2	28.9	22.0	34.9	34.8	33.0
C	41.1	35.1	33.1	45.2	29.5	34.6				28.9	34.0	34.9	13.9	10.5	46.3	35.3	34.9	34.8
D	1.4	9.1	10.0	7.5	9.1	6.2				8.1	5.8	6.8	0.0	5.3	2.5	7.9	6.2	7.9
F	0.0	0.8	3.1	0.5	5.7	3.7				2.8	4.1	3.2	0.0	5.3	2.4	1.5	3.0	3.1
N	73	131	160	199	88	81				356	294	341	36	38	41	833	664	669
Mean	68.8	65.7	65.9	64.7	64.6	65.9				66.9	65.6	66.0	74.6	75.2	65.6	66.4	66.1	65.8
S.D.	15.6	15.2	16.5	13.7	17.1	16.4				15.6	15.0	15.3	17.6	22.7	18.4	14.3	14.7	15.3

3300 French 30

	N.W.T. CORRES.			ZONE 1			ZONE 2			ZONE 3			ZONE 4			ZONE 5		
	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79
A	10.9	17.1	24.4	19.3	33.5	23.5	34.4	24.5	22.1	18.9	21.5	21.4	21.1	21.1	24.1	24.2	21.8	21.3
B	32.7	46.3	34.1	43.1	31.9	36.5	36.0	36.4	37.1	36.7	35.7	40.1	38.9	35.7	33.8	30.9	35.5	38.3
C	43.7	29.3	41.5	31.7	28.6	30.5	25.4	33.7	33.0	36.2	35.7	33.9	32.4	36.7	30.8	38.6	32.7	33.1
D	12.7	7.3	0.0	5.4	5.5	5.2	3.5	4.6	5.6	6.6	6.4	4.1	5.4	6.2	9.7	6.1	6.8	6.7
F	0.0	0.0	0.0	0.5	0.5	4.3	0.7	0.8	2.2	1.6	0.7	0.5	2.2	1.4	1.6	0.0	3.2	0.6
N	55	41	41	202	182	230	311	261	267	682	739	803	355	417	373	194	220	178
Mean	63.3	67.1	67.4	68.0	70.2	67.5	71.9	68.3	67.6			68.3	66.9	66.6	66.8			67.4
S.D.	14.7	16.6	16.9	13.2	14.7	15.9	14.3	13.8	14.2			12.4	13.9	13.9	14.7			13.8

	ZONE 6			EDMONTON PUBLIC			EDMONTON SEPARATE			CALGARY PUBLIC			CALGARY SEPARATE					
	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79	1976 -77	1977 -78	1978 -79
A	28.6	21.1	26.1	21.6	23.6	18.8	21.0	16.7	16.2	31.8	28.8	28.0	47.5	45.3	35.8	26.0	24.6	23.9
B	38.0	41.9	40.0	37.5	38.8	37.7	35.1	27.9	36.2	39.3	39.0	41.2	29.6	28.6	35.4	37.2	36.3	38.5
C	30.3	30.9	29.3	34.1	32.2	35.6	37.0	49.8	41.2	24.5	27.6	27.6	19.5	20.7	25.3	31.0	32.9	31.8
D	3.1	5.3	3.9	4.5	4.3	6.2	4.7	4.4	5.0	3.6	3.2	2.2	1.7	3.4	3.5	4.6	5.0	4.6
F	0.0	0.8	0.7	2.3	1.1	1.7	2.2	1.2	1.4	0.8	1.4	1.0	1.7	2.0	0.0	1.2	1.2	1.2
N	392	394	417	560	627	533	276	251	221	921	628	881	179	203	226	4,127	3,963	4,170
Mean	70.3	68.2	69.8	67.1	68.0	65.8	66.7	63.6	65.1	71.1	69.7	70.2	73.9	73.6	72.1	68.8	68.0	68.3
S.D.	13.5	13.5	13.8	14.5	13.7	13.8	13.6	13.7	13.3	13.2	13.7	12.9	15.6	17.0	13.9	13.6	13.7	13.3